

CLAIMS

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1. An output interface for a sender of video data having an output for providing video data, and a valid data signal associated with the data indicating whether the associated data includes valid video data, and a valid command signal indicating whether the data includes command data, and wherein the command data includes a memory address at a receiver of the data, wherein the output interface transfers data and asserts one of the valid data signal and the valid command signal to the receiver in response to a request signal received from the receiver.
- 10 2. An input interface for a receiver of video data having an input for receiving data, and a valid data signal associated with the data indicating whether the associated data includes valid video data, and a valid command signal indicating whether the data includes command data, wherein the command data includes a memory address at the receiver, wherein the input interface transfers video data received to the memory address specified in the command data in the memory of the receiver.
- 15 3. A device for reading video data from a memory in another device, comprising:
an output interface having an output for providing data, and a valid data signal associated with the data indicating whether the associated data is valid video data, and a valid command signal indicating whether the data includes command data, and wherein the command data includes a memory address in the memory in the other device, and having an input for receiving a request signal from the other device;
wherein the output interface transfers data to the other device in response to a request signal received from the other device; and
20 an input interface having an input for receiving data, and a valid data signal associated with the data indicating whether the associated data is valid video data.
- 25 4. The device of claim 3, further comprising:
a memory; and
30 wherein the input of the input interface further receives a valid command signal indicating whether the data includes command data, wherein the command data includes a

memory address in the memory of the device, wherein the input interface transfers valid data received to the memory address specified in the command data in the memory of the device.

5. The device of claim 3, further comprising:

a queue of memory addresses sent in command data to the other device; and
wherein the input of the input interface further receives a valid command signal indicating whether the data includes command data, wherein the command data includes a memory address in the memory of the other device, wherein the input interface determines whether the memory address corresponds to a memory address in the queue.

- 10 6. A device for providing video data to another device, comprising:

a memory for storing video data;
an input interface having an input for receiving data, and a valid command signal indicating whether the data includes command data, wherein the command data includes a memory address in the device, wherein the input interface reads video data from the memory in the device using the memory address specified in the command data;
an output interface having an output for providing data, and a valid data signal associated with the data indicating whether the associated data is valid video data;
wherein the output interface transfers the video data read from the memory to the other device in response to a request signal received from the other device.

- 15 20 25 7. The device of claim 6, wherein the input of the input interface further receives a valid data signal indicating whether the data includes valid video data, wherein the input interface transfers valid data received to the memory address specified in the command data in the memory of the device.

8. The device of claim 7, further comprising:

a queue of memory addresses received in command data from the other device; and
wherein the output of the output interface further sends a valid command signal indicating whether the data includes command data, wherein the command data includes a memory address in the memory of the device, wherein the input interface outputs a memory address from where the data was read.

9. A device for receiving video data from another device, comprising:
a memory for storing the video data;
an input interface having an input for receiving data, and a valid data signal indicating
whether the data includes valid video data, and a valid command signal indicating whether the
data includes command data, wherein the command data includes a memory address in the
device, wherein the input interface stores video data received from the other device in the
memory in the device at the memory address specified in the command data;
an output interface having an output for providing a request signal, wherein the other
device transfers the video data to the device in response to the request signal.
10. A device for writing video data to a memory in another device, comprising:
an output interface having an output for providing data, and a valid data signal
associated with the data indicating whether the associated data is valid video data, and a valid
command signal indicating whether the data includes command data, and wherein the command
data includes a memory address in the memory in the other device, and having an input for
receiving a request signal from the other device;
wherein the output interface transfers data to the other device in response to a request
signal received from the other device.

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